

Drafts

- BRS:
- BRS:
- BRS:


Pending

Active

- L1: (1) optical near2 medium and ((t
- L2: (17) optical near2 medium and ((
- L3: (174) optical near2 medium and t

Failed

Saved



USPAT US-PCPUB JPO IEM TGB

Plots

Highlight all hit terms initially

Back Forward Home Print Find Print Exit

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comment	E
1	BRS	L1	1	optical near2 medium and ((two or plural) near3 information) and transmission near2 factor near5 low	USPAT; US-PGPUB; JPO; IBM_TDB	2002/08/14 15:56		
2	BRS	L2	17	optical near2 medium and ((two or plural) near3 information) and transmission near2 factor	USPAT; US-PGPUB; JPO; IBM_TDB	2002/08/14 16:00		
3	BRS	L3	174	optical near2 medium and transmission near2 factor	USPAT; US-PGPUB; JPO; IBM_TDB	2002/08/14 16:01		

FAST: [Untitled-1]

File View Edit Tools Window Help

Pending

L1: (195) (two or dual) near5 (semi-transparent or

L2: (15) 1 and optical near3 (disc or disk)

Failed

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(8) ("5876823") or ("5703868") or ("5862121")

(14) optical near3 (disc or disc) same (information

(2) ("5766717").PN.

(121) optical near3 (disc or disc) same (reflect\$3

DBs: USPAT, US-PGPUB, EPO, JPO, DERWENT, IBM, TDB

Default operator: DR

☒ Plural
☒ Highlight all hit terms initially

US term

US term

Image

Text

HTML

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definitio
1	BRS	L1	195	(two or dual) near5 (semi-transparent or semitransparent) near5 reflect\$3	USPAT;	2003/07/14		
					US-PGP	09:31		
					ITR: EP			
2	BRS	L2	15	1 and optical near3 (disc or disk)	USPAT;	2003/07/14		
					US-PGP	09:32		
					ITR: EP			

☒ Hits
☐ Details

HTML

Ready

NUM

EAST: (Untitled1:1)

File View Edit Tools Window Help

Drafts
Pending
L1: (8) ("5876823") or ("5703868") or ("586212")
L2: (14) optical near3 (disk or disc) same (inform
L3: (2) ("5766717").PN.
L4: (121) optical near3 (disk or disc) same (reflec
Failed
Saved
Favorites

DBs: USPAT,US-PGPUB,EPO,JPO,DERWENT,BIM,TDB
Default operator: OR
Plots
Highlight all hit terms in bold

USPAT, 2003/07/11
US-PGP 15:42
TIR: EP
USPAT, 2003/07/11
US-PGP 15:58
TIR: EP
USPAT, 2003/07/11
US-PGP 15:55
TIR: EP
USPAT, 2003/07/11
US-PGP 16:02
TIR: EP

	Type	L.#	Hits	Search Text	DBs	Time Stamp	Comments	Error Definitio
1	IS&R	L1	8	(("5876823") or ("5703868") or ("586212") or ("5563873")).PN.	USPAT; 2003/07/11 US-PGP 15:42 TIR: EP			
2	BRS	L2	14	optical near3 (disk or disc) same (information near3 layer near5 semi-transparent)	USPAT; 2003/07/11 US-PGP 15:58 TIR: EP			
3	IS&R	L3	2	("5766717").PN.	USPAT; 2003/07/11 US-PGP 15:55 TIR: EP			
4	BRS	L4	121	optical near3 (disk or disc) same (reflect\$3 near5 semi-transparent)	USPAT; 2003/07/11 US-PGP 16:02 TIR: EP			

Ready

NUM

PGPUB-DOCUMENT-NUMBER: 20010046192

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010046192 A1

TITLE: Multilayer optical disk

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kaneko, Masahiko	Kanagawa		JP	
Umez, Nobuhiko	Chiba		JP	
Aratani, Katsuhisa	Chiba		JP	
Nakaoki, Ariyoshi	Tokyo		JP	

APPL-NO: 09/798190

DATE FILED: March 2, 2001

RELATED-US-APPL-DATA:

child 09798190 A1 20010302

parent continuation-of 09086277 19980528 US GRANTED

parent-patent 6241843 US

child 09086277 19980528 US

parent continuation-of 09023961 19980213 US ABANDONED

child 09023961 19980213 US

parent continuation-of 08629564 19960409 US GRANTED

parent-patent 5766717 US

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	P07-085369	1995JP-P07-085369	April 11, 1995
JP	P07-094068	1995JP-P07-094068	April 19, 1995

(12) **Patent Application Publication** (43) Pub. No.: US 2001/0046192 A1
 Kaneko et al. (43) Pub. Date: Nov. 29, 2000

(54) MULTILAYER OPTICAL DISK

(30) Foreign Application Priority Data

(76) Inventors: Masahiko Kaneko, Kanagawa (JP);
 Nobuhiko Umez, Chiba (JP);
 Katsuhisa Aratani, Chiba (JP);
 Ariyoshi Nakaoki, Tokyo (JP)

Apr. 11, 1995 (JP) P07-0853
 Apr. 19, 1995 (JP) P07-0940

Publication Classification

(51) Int. Cl. G11B 5/00
 (53) U.S. Cl. 369/47.27; 428/6

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(57) ABSTRACT

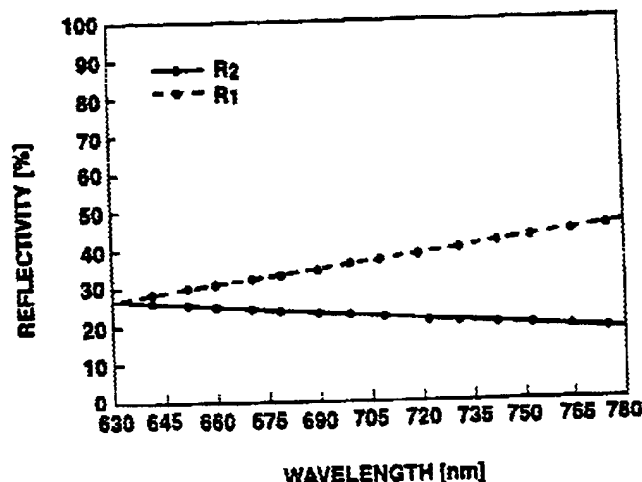
A multilayer optical disk having an information store layer which can as well as be reproduced by a game purpose reproducing apparatus, for example, a compact disc player, and from which information can be read from off information storage layers by using an exclusive reproducing apparatus. The method of manufacturing a multilayer disk comprises the steps of forming a first substrate having a first information storage area enabling reproduction information therein with a first light beam having a wavelength of 770 nm to 830 nm; forming a second substrate having a second information storage area enabling reproduction of information therein with a second light beam having a wavelength of 615-655 nm but which is relative transparent with respect to said first light beam; and bonding said first substrate to said second substrate together with said first and second said information areas facing each other.

(21) Appl. No.: 09/798,190

(22) Filed: Mar. 2, 2001

Related U.S. Application Data

(55) Continuation of application No. 09/056,277, filed on May 28, 1998, now Pat. No. 6,241,843, which is a continuation of application No. 09/023,961, filed on Feb. 13, 1998, now abandoned, which is a continuation of application No. 08/629,564, filed on Apr. 9, 1996, now Pat. No. 5,766,717.



JP 09027143A FRO-KWIC 1995070115100 July 10, 1995

INT-CL (IPC): G11B007/00, G11B007/24

ABSTRACTED-PUB-NO: JP 09027143A

BASIC-ABSTRACT:

The disc comprises an internal semitransparent reflective layer (2) onto which high density recording is performed. Low density recording is performed on an external reflective layer (5).

Regeneration of information recorded onto the internal layer is performed using special official unit while information on external layer is reproduced using ordinary optical unit.

ADVANTAGE - Enables high density and low density information recording onto single disc. Caters to future use of person using multilayer disc.

CHOSEN-DRAWING: Dwg. 1/4

DERWENT-CLASS: T03 W04

EPI-CODES: T03-B; T03-B01; W04-C; W04-C01;

----- KWIC -----

Title - TIX (1):

Multilayer disc for optical recording/regeneration of information - has internal semi-transparent reflective layer and external reflective layer onto which high density and low density recording is performed respectively

(12) 日本国特許庁 (JP)

(C) 公開特許公報 (A)

(11) 特許出願公開番号

特開平9-27143

(42) 公開日 平成9年(1997)1月10日

(51) Int. Cl. ⁷ G11B 7/24 7/00	発明の名称 522 6721-BD 9484-SD	特許庁 P1 G11B 7/34 7/02	特許庁 522K Q	特許庁表示
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審査請求 実審請求 審決請求の範囲 OL (全 4 頁)

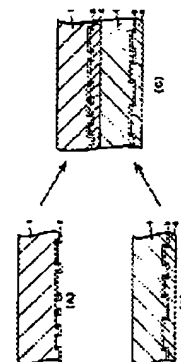
(2) 出願番号 特願 97-175138	(7) 出願人 09027143 松下電器産業株式会社 大阪府門真市大字門真1006番地
(22) 出願日 平成9年(1997)7月10日	(72) 発明者 西本 啓二 大阪府門真市大字門真1006番地 松下電器 産業株式会社内
	(74) 代理人 弁護士 西本 啓二 (外1名)

G0 【発明の名称】 多層ディスク

(37) 【要約】

【目的】 情報層の情報記録面を持つディスクであって、その内の一層は、従来の再生器で再生可能なことのできる多層ディスクを提供する。

【構成】 複数層の情報記録面を持つディスクで、内部の情報記録層は半透過性反射膜でできており、最外部の情報記録層は反射性膜で構成されている。最外部の情報記録層には、低密度記録がなされ、従来の再生器でも再生可能な情報が、再生可能な情報外周部に記録される。内部の情報記録層には高密度記録が記録され、専用の再生器で再生する。内部の情報記録層は再生可能な半透過性反射膜で構成できる。低密度記録層には従来のフォーマットで記録し、内部の高密度記録層には、高容量、高密度の情報記録を記録することができる。



DER WENT-WEEK: 199730

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TITLE: Optical disk for AV appts - has semi-transparent
reflection film layered over first recording surface
comprising zinc sulphide and silicon oxide/silicon
di oxide

PATENT-ASSIGNEE: VICTOR CO OF JAPAN[VICO]

PRIORITY-DATA: 1995JP-0248891 (September 1, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP09128808 A	May 16, 1997	N/A	012	G11B 007/24

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 09128808A	N/A	1996JP-0091983	March 21, 1996

INT-CL (IPC): G11B007/24, G11B007/26

ABSTRACTED-PUB-NO: JP 09128808A

BASIC-ABSTRACT:

The disk has a first recording surface (4) which is formed over a disk base (2). A semitransparent film (5) is formed over the first recording surface, which consists of $ZnS-SiO_x$, where x is smaller than two. The reflection rate of the transparent film is set within 20-40%.

Then, an interface layer (6) is formed on the semitransparent film which comprises a second recording surface (8). A reflecting film (9) is layered over the second recording surface. Finally, a top coat (10) is formed over the reflecting film.

ADVANTAGE - Improves endurance and efficiency.

CHOSEN-DRAWING: Dwg.1/19

(12) 日本経済新聞 (J P)

CD 公開特許公報 (A)

(11) 特殊出版公司番号

特開平9-128608

（社）公開日 平成9年（1997）5月18日

(24) Inc. Q ¹	圖號	片內地址	P ¹	按表指示讀取
G11B 7/24	558	5721-ED	G11B 7/24	580Z
	552	5721-5D		623F
1/20	621	5721-ED	7/20	681

著者請求 大請求 請求異の撤消 PD (金 12 頁)

(2) 出版年份 1993-1999

(22) 主観日 平成 8 年(1996) 9 月 21 日

(X) 報告編號: 00000000-200001

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代理人 代理之 檢査 事項

(50) 【発明の名称】 熱デイスグ及びその製造方法

【题眼】

【解説】 適正な反射率及び熱率の半透明反射膜を有する太陽電池の構成要素。

【解決手段】 第1の記憶域を有するディスク基体2と、この第1の記憶域4上に形成された半導体記憶装置と、第2の記憶域5を有して前記半導体記憶装置と接続された制御部と、この第2の記憶域上に形成された反転膜と、この反転膜の上に形成された保護膜とを有する半導体ディスクにおいて、前記半導体記憶装置は、 $2.0 \times 10^{-5} \sim 3.0 \times 10^{-5}$ (μmは2よりも小さい)により積算する。これにより、半導体記憶装置の故障率が $2.0 \sim 4.0$ ％の範囲内に設定し、その故障率を十分に低く設定する。

